Symptomatic Urinary Tract Infection (SUTI)

Patient name	MR #	Date of admission		
Date of cathe	ter insertion	Date of catheter removal	Date of review	Date of event
criteria ma	y be present during the f	are first present together ≥ 3 calendar day irst 2 calendar days of admission as long criteria occur within a timeframe that do	as they are also present on or	after calendar day 3 of admission
Criterion 1a				
	s an indwelling urinary ca ts of this criterion are firs	atheter in place for > 2 calendar days, with the present together	n day of device placement be	ing Day 1, and catheter is in place when
	ne of the following signs Fever (> 38° C)	and symptoms:		
0	Suprapubic tenderness	with no other recognized cause ain or tenderness with no other recognized	d cause	
	urine culture of $\geq 10^5 \text{C}$	FUs/ml with no more than two species of	microorganisms	
OR				
	d an indwelling urinary c first present together	atheter in place for > 2 calendar days and	had it removed the day of or	the day before all elements of this
□ At least or	ne of the following signs	or symptoms:		
0	Fever (> 38° C) Urgency with no other	recognized cause		
0	Frequency with no other			
0	Dysuria with no other i	ecognized cause		
0	* *	with no other recognized cause		
0	Costovertebral angle pa	nin or tenderness with no other recognized	d cause	
AND	. 1, 0, 105 0		•	
□ A positive	urine culture of $\geq 10^{\circ} \text{ C}$	FUs/ml with no more than two species of	microorganisms (see notes s	ection below)





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NHSN CAUTI protocol http://www.cdc.gov/nhsn/PDFs/pscManual/7pscCAUTIcurrent.pdf

Patient name	MR #	Date of admission
_	Date of event	
criteria may	y be present during the first 2 calendar	It together ≥ 3 calendar days of admission (day of admission is day 1). Some elements of the days of admission as long as they are also present on or after calendar day 3 of admission. within a timeframe that does not exceed a gap of 1 calendar day between elements.
Criterion 1b ((not catheter associated)	
together	s NOT have an indwelling urinary cath	neter in place at the time of or the day before all the elements of this criterion are first presen
AND Has at least	one of the following signs or sympton	me•
	Fever ($> 38^{\circ}$ C) in a patient that is < 6	
	Urgency with no other recognized car	·
	Frequency with no other recognized of	
	Dysuria with no other recognized cau	
	Suprapubic tenderness with no other:	
0	Costovertebral angle pain or tenderne	ess with no other recognized cause
AND		
□ A positive u	urine culture of $> 10^5$ CFUs/ml with n	o more than two species of microorganisms (see notes section below)





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Patient name _ Date of cathete		MR #			Date of event	_
present duri ☐ All elements Criterion 2a	ng the first 2 c s used to meet	alendar days o infection criter	f admission as long as they are a ia occur within a timeframe that	lso present on or after calendar does not exceed a gap of 1 cale	endar day between elements	
☐ Patient has a this criterion an AND			in place for > 2 calendar days,	with day of device placement b	eing Day 1, and catheter is in pla	ce when all elements of
□ At least one ○	Fever (> 38°	C)	nptoms: no other recognized cause			
AND	Costovertebr	al angle pain o	r tenderness with no other recog	nized cause		
0	Positive dips Pyuria (urine	tick for leukoc specimen witl	yte esterase and/or nitrite $n \ge 10 \text{ WBC/mm}^3$ of unspun urinary am stain of unspun urine	ne or > 5 WBC/high power field	l of spun urine)	
	rine culture of	$\geq 10^3$ and < 1	0 ⁵ CFU/ml with no more than tw	vo species of microorganisms (see notes section below)	
	•	ırinary cathete	r in place for > 2 calendar days a	and had it removed the day of o	r the day before all elements of the	nis criterion are first
□ At least one			nptoms:			
0	Fever (> 38° Urgency with	C) 1 no other reco	onized cause			
0			cognized cause			
0		no other recog				
0			no other recognized cause	nized course		
AND	Costoverteor	ai angie pain o	r tenderness with no other recog	mzeu cause		
☐ At least one	of the following	ng findings:				
0			yte esterase and/or nitrite			
0			$n \ge 10 \text{ WBC/mm}^3 \text{ of unspun uri}$	ne or > 5 WBC/high power fie	ld of spun urine)	
o AND	Microorganis	sms seen on Gi	am stain of unspun urine			
	rine culture of	$\geq 10^3 \text{and} < 10^3$	⁵ CFU/ml with no more than two	o species of microorganisms (se	ee notes section below)	





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Patient name	MR #	Date of admission	
Date of review	Date of event		
criteria may be p	present during the first 2 calend	sent together ≥ 3 calendar days of admission (day of admission is day 1). Some elements of the days of admission as long as they are also present on or after calendar day 3 of admission our within a timeframe that does not exceed a gap of 1 calendar day between elements	
Criterion 2b (not	catheter associated)		
□ Patient did NOT together AND	have an indwelling urinary ca	theter in place at the time of, or the day before all the elements of this criterion are first presen	
	of the following signs or symp	itoms	
	Fever (> 38° C) in a patient		
	Urgency with no other reco	<u> </u>	
	Frequency with no other re		
	Dysuria with no other reco		
	•	n no other recognized cause	
	* *	or tenderness with no other recognized cause	
AND	Costovertebrar angle pain (of tenderness with no other recognized cause	
	no following findings:		
	ne following findings:	wite actorics and/on mitrite	
	Positive dipstick for leukocyte esterase and/or nitrite Pyuria (urine specimen with $\geq 10 \text{ WBC/mm}^3$ of unspun urine or $> 5 \text{ WBC/high power field of spun urine}$)		
	 Microorganisms seen on G 	ram stain of unspun urine	
AND	1. 0. 103 1 105 0		
☐ A positive urine	culture of $\geq 10^{\circ}$ and $< 10^{\circ}$ CFU	Js/ml with no more than two species of microorganisms (see notes section below)	





Symptomatic Urinary Tract Infection (SUTI)

Patient name	MR #	Date of admission		
Date of catheter inser	tion	Date of catheter removal	Date of review	Date of event
criteria may be pre	sent during the firs	first present together ≥ 3 calendar dat 2 calendar days of admission as long iteria occur within a timeframe that do	as they are also present on or	after calendar day 3 of admission
Criterion 3				
□ Patient is ≤ 1 year	of age with (has the	e indwelling urinary catheter in place f	for > 2 calendar days, with day	y of device placement being Day 1, and
catheter is in place wh	nen all elements of	this criterion are first present together), or without an indwelling ur	inary catheter
AND				
□ Has at least <u>one</u> of	the following signs	s or symptoms:		
0	Fever (> 38° C co	re)		
0	o Hypothermia (< 36° C core)			
0	Apnea with no oth	ner recognized cause		
0	Bradycardia with	no other recognized cause		
0	Dysuria with no o	ther recognized cause		
0	Lethargy with no	other recognized cause		
0	Vomiting with no	other recognized cause		
AND	_	-		
□ A positive urine cu	Iture of $\geq 10^5$ CFU	J/ml with no more than two species of	microorganisms (see notes se	ction below)





Symptomatic Urinary Tract Infection (SUTI)

Patient name	MR #	Date of admission		
Date of catheter inserti			Date of review	Date of event
criteria may be prese	ent during the firs	e first present together ≥ 3 calendar day t 2 calendar days of admission as long riteria occur within a timeframe that do	as they are also present on or	r after calendar day 3 of admission
Criterion 4				
□ Patient is ≤ 1 year or	f age with (has th	e indwelling urinary catheter in place for	or > 2 calendar days, with da	y of device placement being Day 1, and
-	en all elements of	this criterion are first present together)	or without and indwelling u	rinary catheter
AND				
☐ Has at least one of the properties of the properties.	0 0	• •		
	Fever (> 38° C co			
	Hypothermia (< 3			
		ner recognized cause		
0]	Bradycardia with	no other recognized cause		
	•	ther recognized cause		
		other recognized cause		
	Vomiting with no	other recognized cause		
AND				
☐ At least one of the fo				
		for leukocyte esterase and/or nitrite		
0]	Pyuria (urine spec	eimen with $\geq 10 \text{ WBC/mm}^3$ of unspun u	rine or > 5 WBC/high powe	er field of spun urine)
0]	Microorganisms s	een on Gram stain of unspun urine		
AND		_		
□ A positive urine cult	ture of $> 10^3$ and \cdot	$< 10^5$ CFUs/ml with no more than two s	pecies of microorganisms (s	ee notes section below)





Asymptomatic Bacteremic Urinary Tract Infection (ABUTI)
NHSN CAUTI protocol http://www.cdc.gov/nhsn/PDFs/pscManual/7pscCAUTIcurrent.pdf

Patient name	MR #	Date of admission		
Date of catheter insertio	n	Date of catheter removal	Date of review	Date of event
present during the fir	st 2 calendar days	first present together ≥ 3 calendar da of admission as long as they are also eria occur within a timeframe that do	present on or after calendar of	
place when all elements o fever (> o urgency o frequen o dysuria o suprapu o costove AND A positive urine cultu AND A positive blood cultu	of this criterion was 38° C) cy bic tenderness rebral angle pain are of $\geq 10^{5}$ CFUs/are with at least or	all must all with no more than two species of	tan indwelling urinary catheters be checked uropathogen ⁺ microorganism ism to the urine culture or at	device placement being Day 1, and catheter was in er, has <u>none</u> of the following signs or symptoms s least 2 matching blood cultures drawn on separate
OR	g pathogen is a co	minor skin commensar (see notes se	etion below)	
□ Patient ≤ 1 YEAR OF in place when all element of ever (>	nts of this criterion 38° C core) rmia (< 36° C core) rdia	are first present together), or without		day of device placement being Day 1, and catheter is ter, has <u>none</u> of the following signs or symptoms
•	are of $\geq 10^5$ CFUs/2	nl with no more than two species of	uropathogen ⁺ microorganism	is .
		ne matching uropathogen microorgar mmon skin commensal (see notes se		least 2 matching blood cultures drawn on separate



UTI Notes

+Uropathogen microorganisms are: Gram-negative bacilli, *Staphylococcus* spp. yeasts, beta-hemolytic *Streptococcus* spp., *Enterococcus* spp., *G. vaginalis, Aerococcus urinae*, and *Corynebacterium* (urease positive). Report *Corynebacterium* (urease positive) as either *Corynebacterium species unspecified* (COS) or as *C. urealyticum* (CORUR) if so speciated

UTI Comments

- 1. Laboratory cultures reported as "mixed flora" represent at least 2 species of organisms. Therefore an additional organism recovered from the same culture would represent > 2 species of microorganisms. Such a specimen cannot be used to meet the UTI criteria.
- 2. Urinary catheter tips should not be cultured and are not acceptable for the diagnosis of a urinary tract infection.
- 3. Urine cultures must be obtained using appropriate technique, such as clean catch collection or catheterization. Specimens from indwelling catheters should be aspirated through the disinfected sampling ports.
- 4. In infants, urine cultures should be obtained by bladder catheterization or suprapubic aspiration; positive urine cultures from bag specimens are unreliable and should be confirmed by specimens aseptically obtained by catheterization or suprapubic aspiration.
- 5. Urine specimens for culture should be processed as soon as possible, preferably within 1 to 2 hours. If urine specimens cannot be processed within 30 minutes of collection, they should be refrigerated, or inoculated into primary isolation medium before transport, or transported in an appropriate urine preservative. Refrigerated specimens should be cultured within 24 hours.
- 6. Urine specimen labels should indicate whether or not the patient is symptomatic.
- 7. Report secondary bloodstream infection = "Yes" for all cases of Asymptomatic Bacteremic Urinary Tract Infection (ABUTI).
- 8. Report only pathogens in both blood and urine specimens for ABUTI.
- 9. Report Corynebacterium (urease positive) as either Corynebacterium species unspecified (COS) or, as C. urealyticum (CORUR) if so speciated.





Other Urinary Tract Infection (OUTI)

(kidney, ureter, bladder, urethra, or tissue surrounding the retroperineal or perinephric space)

Patient name _	MR #Da	ate of admission
Date of review	Date of event	
present duri	ng the first 2 calendar days of admission as	gether ≥ 3 calendar days of admission (day of admission is day 1). Elements of the criteria may be a long as they are also present on or after calendar day 3 of admission ithin a timeframe that did not exceed a gap of 1 calendar day between elements
Other infection	s of the urinary tract must meet at least one	e of the following criteria:
Criterion 1 □ Patient has n	nicroorganisms isolated from culture of flu	id (other than urine) or tissue from affected site
Criterion 2 □ Patient has a	n abscess or other evidence of infection see	en on direct examination, during an invasive procedure, or during a histopathologic examination
O O AND □ At least <u>one</u> O	•	cause
0 0 0 AND	•	o Bradycardia with no other recognized cause o Lethargy with no other recognized cause o Vomiting with no other recognized cause are compatible with suspected site of infection abnormal ultrasound, CT scan, MRI, or radiolabel scan (gallium, technetium)]



